

HOSPITAL AND MEDICAL FACILITIES SERIES
(Under the Hill-Burton Program)

design
equipment

HOSPITAL EQUIPMENT CHECKLIST

(GROUP I—BUILT-IN)

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Hospital and Medical Facilities
Equipment Planning Branch
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FOREWORD

Adequate diagnostic and therapeutic equipment, readily available in a proper setting, is an essential component of modern medical care. An awareness of this basic requirement will assist the hospital planner as he formulates an equipment list for the individual hospital under consideration. The checklists presented herein are intended as a guide to such planning. They are limited to Group I (Built-in) equipment as defined for the purposes of the Hospital and Medical Facilities Survey and Construction (Hill-Burton) Program.

These Group I equipment checklists are adapted from the suggested equipment lists for 50-, 100-, and 200-bed general hospitals presented in "Hospital Equipment Planning Guide," Public Health Service Publication No. 930-D-4. A complete listing of equipment and the suggested quantity of items needed are presented in that publication.

This document is designed to encourage a thorough review of the Group I equipment included in the construction contract as a preliminary step in the preparation of equipment lists required in Hill-Burton construction project applications. Hospital administrators, architects, and others concerned with hospital planning and construction will, it is hoped, find it useful in making such a review.



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INTRODUCTION

Equipment necessary for the functioning of a facility planned under the Hospital and Medical Facilities Survey and Construction (Hill-Burton) program is considered an essential part of the construction project. Such equipment costs, therefore, are included in the total cost of the project.

Three groups of equipment are specified in the regulations governing the Hill-Burton program. The classifications are based on the usual methods of purchase and suggested accounting practices with regard to depreciation.

Definitions

Equipment.—The term "equipment" as used in connection with Hill-Burton construction projects means all items necessary for the functioning of the facility, including such services as accounting and records, maintenance of buildings and grounds, laundry service, public waiting rooms, public health, and related services. Supply items involving a current operating expense such as food, fuel, drugs, dressings, paper, printed forms, and soap are not considered equipment.

Group I Equipment is built-in equipment usually included in construction contracts. Hospital cabinets and counters, elevators, boilers, sterilizers, surgical lighting, dental units and chairs, autopsy tables, and similar fixed equipment are examples.

Group II Equipment is depreciable equipment of five years' life or more, not normally purchased through construction contracts, comprising large items of furniture and equipment having a reasonably fixed location in the building but capable of being moved. Examples are bedroom and office furniture, radiographic and fluoroscopic units, operating tables, oxygen tents, centrifuges, balances and wheeled equipment.

Group III Equipment is nondepreciable equipment of less than five years' life, normally purchased through other than construction contracts. This group includes small items of low unit cost which are suited to storeroom control. Examples are chinaware, silverware, kitchen utensils, waste baskets, bedpans, dressing jars, catheters, surgical instruments, bed linens, and blankets.

Preparation of Equipment Lists

The applicant for a Hill-Burton construction project must prepare and submit to the State Agency lists of equipment necessary for providing the proposed services of the hospital or medical facility planned. These equipment lists are an essential part of the project construction application.

Most Group I equipment is included in the construction contract. Before Group II and III equipment lists are prepared, however, the hospital's plans and specifications should be reviewed to determine whether provision has been made for including all Group I equipment in the construction contract. If certain Group I equipment items have not been included in the contracts, such items must be listed and funds must be set aside to purchase and install them. Group I equipment checklists are provided in this publication to facilitate review of the hospital plans and specifications.

These checklists are presented in two forms: (a) by the department and (b) by categories. Either form may be used in checking Group I equipment. The hospital administrator will probably find the "departmental form" more satisfactory; the "category form" is generally more useful to the architect. The format permits the use of these lists as a worksheet.

The checklists do not include general plumbing fixtures, ordinary electrical fixtures, and mechanical units for air conditioning, ventilation, or heating. These automatically are included in the general construction contract and present no problem.

With certain exceptions, all Group I equipment for Hill-Burton hospital projects, if not included in the construction contract either originally or by change order, must be purchased in accordance with the requirements governing competitive bidding. These exceptions include (1) equipment unique to a hospital or medical facility and (2) equipment for the laboratory, pharmacy, laundry, and kitchen. Purchases on the open market are limited to the following items:¹

Autopsy equipment	Laboratory equipment
Bedpan washer and disinfecter	Laundry equipment
Blanket and solution warmers	Milk formula room equipment
Built-in counters and cabinets in kitchens, laboratories, and phar- macies	Mortuary refrigerators
Central sterilizing and supply room equipment	Pharmacy equipment
Cubicle curtain equipment	Physical therapy exercise equipment
Dental equipment	Platform scales
Doctors' in-and-out registers (single unit plug-in type)	Steel shelving
Ear, nose and throat equipment	Sterilizers
Electric clocks	Surgical lights
Film illuminators	Ultrasonic cleaners
Hydrotherapy equipment	Utensil sanitizers
Kitchen equipment	Venetian blinds
	Water stills
	X-ray darkroom equipment
	X-ray dental wall units

Estimated average costs of equipment frequently purchased on the open market are shown in the table which appears on the following page. These cost data may be helpful in planning purchases and preparing equipment lists.

¹ If the applicant for a Hill-Burton construction project should prefer to purchase any of these items through competitive bidding rather than on the open market, the award must be made to the responsible bidder submitting the lowest acceptable bid.

The symbols used in the checklists have the following meanings:

*(Asterisk): item is applicable to the particular hospital size group.

(Blank): item is not applicable to the particular hospital size group.

I.C.: item is included in the construction contract.

N.I.C.: item is not included in the construction contract.

GROUP I EQUIPMENT COSTS FOR GENERAL HOSPITALS¹

(Estimated Averages)²

	Number of Beds		
	50	100	200
Casework (Built-In Counters, Cabinets and Shelving):			
Laboratory.....	\$4,030.00	\$10,706.00	\$13,430.00
Pharmacy.....	4,550.00	11,040.00	16,320.00
Curtain, Cubicle and Track.....	1,600.00	3,160.00	6,590.00
Dental Equipment.....	7,450.00	7,450.00	7,450.00
Alternate "A" (Oral Surgery).....	2,250.00	2,250.00	2,250.00
Alternate "B" (Prosthodontia).....	2,360.00	2,360.00	2,360.00
Ear, Nose and Throat Equipment.....	440.00	440.00	440.00
Food Service Equipment.....	31,300.00	39,350.00	45,270.00
Cafeteria.....		5,120.00	5,850.00
Laundry Equipment.....	18,590.00	31,570.00	71,490.00
Mortuary Equipment.....	4,470.00	4,470.00	5,840.00
Physical Therapy Equipment.....	660.00	660.00	5,210.00
Sterilizers, Pressure.....	17,430.00	32,370.00	42,300.00
Surgical Lights, Ceiling-Hung.....	3,790.00	5,450.00	8,880.00
Water Still and Storage Tanks.....	830.00	2,630.00	3,120.00
X-Ray Equipment:			
Dark and Light Rooms.....	5,560.00	6,420.00	7,200.00
Film Illuminators.....	1,510.00	3,290.00	4,560.00

¹ Equipment frequently purchased separately from the construction contract, which may be purchased on the open market.

² Based on average cost (excluding freight and installation) of items listed in the "Hospital Equipment Planning Guide" prepared by the Public Health Service.

GROUP I EQUIPMENT BY DEPARTMENT

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
CENTRAL STERILIZING AND SUPPLY FACILITIES							
Counters, sinks and cabinets.....	*	*	*				
Receiving and Clean-up Area							
Cleaner, ultrasonic.....		*	*				
Clean Work and Sterilizing Area							
Sterilizer, pressure, dressing:							
20 x 36 inches.....		*					
24 x 24 x 36 inches with loading carriage and cradle.....	*	*	*				
24 x 36 x 48 inches with loading carriage and cradle.....			*				
Still, water, capacity 5 gallons per hour.....	*	*	*				
Tank, glass, distilled water, wall-mounted, capacity 12 gallons.....	*	*	*				
LABORATORY DEPARTMENT¹	(D)	(B)	(A)				
Counters, sinks and cabinets.....	*	*	*				
Biochemistry, Serology and Bacteriology Units							
Hood, fume.....		*	*				
Histology Unit							
Hood, exhaust.....		*	*				
Sterilizing—Glasswashing Unit							
Hood, exhaust.....	*	*	*				
Sterilizer, laboratory, pressure, horizontal, 16 x 24 inches.....	*	*	*				
Still, water, capacity 2-5 gallons per hour.....		*	*				
Tank, glass, distilled water, wall-mounted, capacity 12 gallons.....		*	*				
MORGUE AND AUTOPSY							
Counters, sinks and cabinets.....	*	*	*				
Fan, exhaust.....	*	*	*				
Illuminator, film, double, recessed.....	*	*	*				
Light, operating, mirror, ceiling-hung.....	*	*	*				
Refrigerator, mortuary:							
2 bodies.....	*	*	*				
4 bodies.....			*				
Table, autopsy with sink.....	*	*	*				

¹ D—20,000-30,000 tests per year.

B—40,000-75,000 tests per year.

A—70,000-120,000 tests per year.

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
PHARMACY DEPARTMENT							
Counters, sinks, cabinets (drug sectional type) and shelving.....	*	*	*				
Still, water, capacity 2 gallons per hour ¹		*					
Tank, glass, distilled water, wall-mounted:							
Capacity 5 gallons.....	*	*					
Capacity 12 gallons.....			*				
Parenteral Solution Laboratory							
Cleaner, bottle, pressure type.....			*				
Counters, sinks, cabinets and shelving.....		*	*				
Sterilizer, pressure, 24 x 36 x 48 inches with loading carriage and cradle.....		*	*				
Still, water:							
Capacity 5 gallons per hour.....		*					
Capacity 10 gallons per hour.....			*				
Tank, glass, distilled water, capacity 12 gallons, wall-mounted.....		*	*				
PHYSICAL THERAPY							
Hydrotherapy							
Bath, whirlpool, arm and leg.....	*	*	*				
Hubbard tank with monorail.....			*				
RADIOGRAPHIC SUITE²							
Counters and cabinets.....	(B)	(A)	*				
Illuminator, film.....	*	*	*				
Darkroom							
Bin, storage:							
Cassette.....	*	*					
Film.....	*	*					
Cabinet, trash deposit.....	*	*					
Counter, film loading.....	*	*					
Light, ceiling, white and red.....	*	*					
Pass box, cassette.....	*	*					
Rack, film hanger, under counter.....	*	*					
Refrigerating unit.....	*	*					
Safelight.....	*	*					
Tank:							
Developing with thermostatic mixing valve.....	*	*					
Fixing, through wall type.....	*	*					

¹ Required if Parenteral Solution Laboratory is omitted.

² B—4,800 patient examinations per year.

A—8,400 patient examinations per year.

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
RADIOGRAPHIC SUITE—Continued							
Film Collection and Distribution Room.....	(B)	(A)					
Counter and bin, film-sorting.....	*	*					
Lightroom							
Dryer, film.....	*	*					
Exhaust, film dryer.....	*	*					
Illuminator, wet film.....	*	*					
Rack, film hanger, under counter.....	*	*					
Tank, washing.....	*	*					
X-RAY THERAPY SUITE							
Counters, sinks and cabinets.....			*				
NURSERY FACILITIES							
FORMULA ROOM							
Bottle Washing							
Rinzer, jet, nursing bottle.....	*	*	*				
Washer:							
Nipple.....	*	*	*				
Nursing bottle with brushes, electric.....	*	*	*				
Preparation and filling							
Sterilizer, pressure, infant formula:							
16 x 24 inches.....	*						
20 x 30 inches.....		*					
24 x 24 x 36 inches.....			*				
NURSING SERVICE FACILITIES							
Bedrooms							
Dressers, built-in.....	*	*	*				
Lockers, built-in.....	*	*	*				
Treatment Room							
Illuminator, film double, recessed.....	*	*	*				
Medicine Preparation Room							
Cabinet, medicine, locked with inner locked narcotic compartment.....	*	*	*				
Counter.....	*	*	*				
Sink, medicine, counter.....	*	*	*				
Nourishment Room							
Ice-making machine.....	*	*	*				
OBSTETRICAL FACILITIES							
Delivery Room							
Light with mirror, obstetrical, ceiling-hung....	*	*	*				
Substerilizing Room							
Cabinet, solution warmer.....	*	*	*				
Sterilizer, pressure, instrument, high-speed, 16 x 24 inches.....	*	*	*				

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
OBSTETRICAL FACILITIES—Continued							
Doctors Lockers							
Illuminator, film, double, recessed.....	*	*	*				
OUTPATIENT DEPARTMENT							
Ear, Nose, and Throat Room							
Compressor, air.....			*				
Cuspidor, pedestal type.....			*				
Eye, Ear, Nose and Throat Room							
Compressor, air.....	*	*					
Cuspidor, pedestal type.....	*	*					
DENTAL SUITE							
Operator							
Chair, dental.....	*	*	*				
Dental unit complete with cuspidor, cord arm, electrical instruments and handpiece....	*	*	*				
Light, dental operating, ceiling-hung.....	*	*	*				
Radiographic unit, dental, wall-mounted.....	*	*	*				
Oral Surgery (Alternate "A" in lieu of one Operator)							
Chair, dental exodontia type.....	*	*	*				
Cuspidor, surgical, pedestal type.....	*	*	*				
Engine, pedestal type.....	*	*	*				
Prosthodontia (Alternate "B" in lieu of one Operator)							
Cabinet, prosthodontia.....	*	*	*				
Chair, dental.....	*	*	*				
Cuspidor, pedestal type with saliva ejector, air and water.....	*	*	*				
Engine, bench type.....	*	*	*				
Laboratory							
Compressor, air, dental type.....	*	*	*				
Counter, laboratory.....	*	*	*				
Rack, film-drying, dental.....	*	*	*				
Safe, film.....	*	*	*				
Safelight.....	*	*	*				
Shade, light proof.....	*	*	*				
Tank, developing, dental film, capacity 1 gallon.....	*	*	*				
CENTRAL STOREROOMS							
Shelving, metal, adjustable.....	*	*	*				

* Portable type may be substituted.

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.L.C.	Unit	Total
DIETARY DEPARTMENT							
CENTRALIZED TRAY SERVICE							
RECEIVING ENTRANCE							
Counter for checking deliveries	*	*	*				
STORAGE							
Dairy Refrigeration							
Refrigerator, walk-in		*	*				
Shelving, metal, adjustable ¹		*	*				
Day							
Cabinet, locked	*	*	*				
Shelving, metal, adjustable ¹	*	*	*				
Fruit and Vegetable Refrigeration							
Refrigerator, walk-in		*	*				
Shelving, metal, adjustable ¹		*	*				
Meat Refrigeration							
Refrigerator, walk-in		*	*				
Shelving, metal, adjustable ¹		*	*				
FOOD PREPARATION AND SERVING							
Preparation, Vegetable and Salad							
Cutter, food, 14-inch diameter bowl	*	*	*				
Disposer, food waste, institutional size	*	*	*				
Sink, two 24 x 24 x 14-inch compartments, two drainboards	*	*	*				
Table, preparation with 2 drawers and undershelf, 30 x 72 inches	*	*	*				
Preparation, Meat							
Sink, two 24 x 24 x 14-inch compartments, two drainboards			*				
Table, 30 x 60 inches, drawer and undershelf ..			*				
Cooking and Baking							
Broiler:							
1 deck	*						
2 deck		*	*				
Cabinet, below broiler	*	*	*				
Counter, 30 x 60 inches	*	*	*				
Fryer, deep fat:							
Fat capacity 15 pounds	*						
Fat capacity 25-35 pounds		*	*				
Disposer, food waste, institutional size	*	*	*				
Extinguisher system for grease fires in hoods and ducts	*	*	*				

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
DIETARY DEPARTMENT—Continued							
FOOD PREPARATION AND SERVING—Con.							
Cooking and Baking—Continued							
Hood and fan, ventilating with removable grease filters.....	*	*	*				
Hot plate, 2-element, flush with counter top..			*				
Kettle, steam-jacketed with swinging water spout: ¹							
Floor mounted, capacity 20 gallons.....		*	*				
Tilting type with table, capacity 20 quarts.....	*	*	*				
Mixer, food, floor-mounted, capacity 30 quarts, 12 quart bowl.....		*	*				
Oven, roasting, two sections.....	*	*	*				
Range:							
1-section top.....	*						
2-section top.....		*					
3-section top.....			*				
Sink, two 24 x 24 x 14 inch compartments, two drainboards.....	*	*	*				
Spreader, plate.....	*	*	*				
Steamer:							
1 compartment, 100-150 meals per hour..	*						
2 compartments, 200-500 meals per hour..		*	*				
Table, cooks with sink, 2 drawers, undershelf:							
30 x 60 inches.....		*	*				
30 x 90 inches.....	*						
Tray Set-up, Serving and Distribution							
Cabinet, wall.....	*	*	*				
Coffee urn with stand:							
1 five-gal. urn with 1 ten gal. boiler.....	*	*					
2 five-gal. urn with 1 ten gal. boiler.....			*				
Potwashing							
Disposer, food waste, institutional size.....	*	*	*				
Sink, three 24 x 24 x 14 inch compartments, 1 with dial thermometer, two drainboards..	*	*	*				
Table, clean pot with raised rolled rim.....	*	*	*				
DISHWASHING							
Disposer, food waste, institutional size.....	*	*	*				
Hood and fan, ventilating.....	*	*	*				

¹ May be purchased as a combination unit with cabinet type steamer.

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
DIETARY DEPARTMENT—Continued							
DISHWASHING—Continued							
Machine, dishwashing, automatic floor model, 20 x 20 inch racks with booster heater, detergent dispenser, rinse injector and splash guard:							
Conveyor type:							
Double tank, capacity 275 racks per hour.....			*				
Single tank, capacity 216 racks per hour.....		*					
Door type:							
Single tank, capacity 50 racks per hour.....	*						
Shelving, rack storage.....	*	*	*				
Sink, soak, two-compartment.....	*	*	*				
Table:							
Clean dish, rolled rim edge, shelf above for 4-5 racks.....	*	*	*				
Soiled dish, sink type.....	*	*	*				
ICE MANUFACTURE							
Ice making machine.....	*	*	*				
CAFETERIA							
Back bar, shelves below.....		*	*				
Cold pan unit.....		*	*				
Counter, serving, cabinet below with 1 shelf, sliding doors.....		*	*				
Griddle, counter type, electric, 3 heat control, heavy duty.....		*	*				
Hot plate, 2-element, flush with counter top...		*	*				
Railing.....		*	*				
Shelf, serving, panel and glass protector.....		*	*				
Shelves, glass display.....		*	*				
Sink, counter, shelves below.....		*	*				
Slide, tray.....		*	*				
Table, hot food, interchangeable inserts, 24 x 48 x 30 inches.....		*	*				
HOUSEKEEPING DEPARTMENT							
Central Linen and Storage Room							
Shelving, compartmentalized.....	*	*	*				

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
LAUNDRY DEPARTMENT							
Compressor, air.....	*	*	*				
Extractor, 26 inches.....			*				
Folder, linen: 120 inches.....			*				
Ironer, flatwork with ventilating canopy:							
16-inch roll, 110 inches.....	*						
2-roll, 120 inches.....		*					
6-roll, 120 inches.....			*				
Press:							
Finishing.....	*	*	*				
Utility.....	*	*	*				
Scale, platform, flush with floor.....	*	*	*				
Tub, laundry, two-compartment.....	*	*	*				
Tumbler:							
37 x 30 inches.....	*	*					
44 x 42 inches.....			*				
Washer, 36 x 18 inches.....			*				
Washer-extractor, combination:							
Capacity 50 pounds.....		*					
Capacity 100 pounds.....	*						
Capacity 200 pounds.....			*				
MAINTENANCE DEPARTMENT							
Shops							
Bench, work, 36 inches high with heavy plank top, slide drawers.....	*	*	*				
Bin, storage, metal.....			*				
Cabinet below work bench.....	*	*	*				
Hood spray, vapor tight with exhaust fan and hinged panels, front and sides.....			*				
Shelving, metal, adjustable.....	*	*	*				
SURGICAL SUITE							
Operating Room							
Illuminator, film, double, recessed ¹	*	*	*				
Light, operating, ceiling-hung.....	*	*	*				
Substerilizing Room							
Cabinet, solution warmer ²	*	*	*				
Sterilizer, pressure, instrument, high-speed, 16 x 24 inches.....	*	*	*				

¹ Shall comply with requirements of the National Fire Protective Association Code No. 56.

² Technician determines need.

GROUP I EQUIPMENT BY DEPARTMENT—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
SURGICAL SUITE—Continued							
Cystoscopic Room							
Illuminator, film, double, recessed ¹		*	*				
Darkroom							
Box, film storage.....		*	*				
Counters, sinks and cabinets.....		*	*				
Dryers, film, bracket for 12 films.....		*	*				
Fan, exhaust, or connection from film dryer.....		*	*				
Rack, film hanger.....		*	*				
Safelight.....		*	*				
Tank, developing with 2½- and 5-gallon inserts.....		*	*				
Fracture Room							
Illuminator, film, double, recessed ¹		*	*				
MISCELLANEOUS EQUIPMENT							
Blinds, window.....	*	*	*				
Boards, bulletin.....	*	*	*				
Clocks, electric.....	*	*	*				
Curtain, cubicle and track.....	*	*	*				
Dispenser:							
Paper towel.....	*	*	*				
Soap.....	*	*	*				
Key control, master ²	*	*	*				
Lockers, built-in ²	*	*	*				
Mirrors above lavatories ²	*	*	*				
Time clocks and card racks ²	*	*	*				
Warmer, blanket.....			*				
Water cooler ²	*	*	*				

¹ Shall comply with requirements of the National Fire Protective Association Code No. 56.

² Must be included in the construction contract or purchased in accordance with the requirements for competitive bidding.

GROUP I EQUIPMENT BY CATEGORIES

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
CASEWORK							
(Built-in counters, cabinets and shelving)							
Laboratory.....	*	*	*				
Pharmacy.....	*	*	*				
DENTAL EQUIPMENT							
Chair, dental (or exodontia type).....	*	*	*				
Cuspidor, pedestal type:							
Prosthodontia, saliva ejector, air and water.....	*	*	*				
Oral surgery (surgical).....	*	*	*				
Dental unit, complete with cuspidor, cord arm, electrical instruments and handpiece..	*	*	*				
Engines, dental type:							
Bench.....	*	*	*				
Pedestal.....	*	*	*				
Light, dental, operating, ceiling-hung.....	*	*	*				
Radiographic unit, dental, wallmounted ¹	*	*	*				
Laboratory:							
Compressor, air, dental type.....	*	*	*				
Counter, laboratory.....	*	*	*				
Rack, film drying, dental.....	*	*	*				
Safe, film.....	*	*	*				
Safelight.....	*	*	*				
Shade, light proof.....	*	*	*				
Tank, developing, dental film, capacity 1 gallon.....	*	*	*				
EAR, NOSE AND THROAT EQUIPMENT							
Compressor, air:							
Ear, nose, and throat room.....			*				
Eye, ear, nose, and throat room.....	*	*					
Cuspidor, pedestal type:							
Ear, nose, and throat room.....			*				
Eye, ear, nose, and throat room.....	*	*					
FOOD SERVICE EQUIPMENT							
COUNTER FOR CHECKING DELIVERIES							
Receiving Entrance.....	*	*	*				
STORAGE							
Cabinet							
Below broiler							
Cooking and baking.....	*	*	*				

¹ Portable type may be substituted.

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
FOOD SERVICE EQUIPMENT—Continued							
STORAGE—Continued							
Wall:							
Day storage.....	*	*	*				
Tray set-up, serving and distribution.....	*	*	*				
Refrigerator, Walk-in							
Dairy refrigeration.....		*	*				
Fruit and vegetable refrigeration.....		*	*				
Meat refrigeration.....		*	*				
Shelving, Metal, Adjustable							
Dairy refrigeration.....		*	*				
Day.....	*	*	*				
Fruit and vegetable refrigeration.....		*	*				
Meat refrigeration.....		*	*				
FOOD PREPARATION AND SERVING							
Broiler:							
1 deck.....	*						
2 deck.....		*	*				
Coffee urn with stand:							
1 five-gal. urn with 1 ten-gal. boiler.....	*	*					
2 five-gal. urn with 1 ten-gal. boiler.....			*				
Counter, 30 x 60 inches.....	*	*	*				
Cutter, food, 14 inch diameter bowl.....	*	*	*				
Disposer, food waste, institutional size.....	*	*	*				
Fryer, deep fat:							
Fat capacity 15 pounds.....	*						
Fat capacity 25-35 pounds.....		*	*				
Extinguisher system for grease fires in hoods and ducts.....	*	*	*				
Hood and fan, ventilating, removable grease filters.....	*	*	*				
Hot plate, 2-element, flush with counter top.....			*				
Kettle, steam-jacketed, swinging with water spout:							
Floor-mounted, capacity 20 gallons.....		*	*				
Tilting type with table, capacity 20 quarts.....	*	*	*				
Mixer, food:							
Floor-mounted, capacity 30 quarts, 12 quart bowl.....		*	*				
Oven, roasting, two sections.....	*	*	*				

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
FOOD SERVICE EQUIPMENT—Continued							
FOOD PREPARATION AND SERVING—Con.							
Range:							
1-section top.....	*						
2-section top.....		*					
3-section top.....			*				
Sink, two 24 x 24 x 14 inch compartments, two drainboards.....	*	*	*				
Spreader, plate.....	*	*	*				
Steamer:							
1 compartment, 100-150 meals per hour..	*						
2 compartments, 200-500 meals per hour..		*	*				
Table, cooks with sink, two drawers under-shelf:							
30 x 60 inches.....		*	*				
30 x 90 inches.....	*						
DISH AND POT WASHING							
Disposer, food waste, institutional size.....	*	*	*				
Hood and fan, ventilating.....	*	*	*				
Machine, dishwashing, automatic floor model, 20 x 20 inch racks with booster heater, detergent dispenser, rinse injector and splash guard:							
Conveyor type:							
Double tank, capacity 275 racks per hour.....			*				
Single tank, capacity 216 racks per hour.....		*					
Door type:							
Single tank, capacity 50 racks per hour.....	*						
Shelving, rack storage.....	*	*	*				
Sink:							
Soak, two-compartment.....	*	*	*				
Three 24 x 24 x 14 inch compartments, 1 with dial thermometer, two drainboards.....	*	*	*				
Table:							
Clean dish, rolled rim edge, shelf above for 4-5 racks.....	*	*	*				
Clean pot, raised rolled rim.....	*	*	*				
Soiled dish, sink type.....	*	*	*				

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
FOOD SERVICE EQUIPMENT—Continued							
ICE MAKING MACHINE							
Dietary Department.....	*	*	*				
Nursing Service Facilities (Nourishment Room).....	*	*	*				
CAFETERIA							
Back bar, shelves below.....		*	*				
Cold pan unit.....		*	*				
Counter, serving, cabinet below with 1 shelf, sliding doors.....		*	*				
Griddle, counter type, electric, 3 heat control, heavy duty.....		*	*				
Hot plate, 2-element, flush with counter top.....		*	*				
Railing.....		*	*				
Shelf, serving, panel and glass protector.....		*	*				
Shelves, glass display.....		*	*				
Sink, counter, shelves below.....		*	*				
Slide, tray.....		*	*				
Table, hot food, interchangeable inserts, 24 x 48 x 30 inches.....		*	*				
LAUNDRY EQUIPMENT							
Compressor, air.....	*	*	*				
Extractor, 26 inches.....			*				
Folder, linen: 120 inches.....			*				
Ironer, flatwork with ventilating canopy:							
16 inch roll, 110 inches.....	*						
2 roll, 120 inches.....		*					
6 roll, 120 inches.....			*				
Press:							
Finishing.....	*	*	*				
Utility.....	*	*	*				
Seale, platform, flush with floor.....	*	*	*				
Tub, laundry, two-compartment.....	*	*	*				
Tumbler:							
37 x 30 inches.....	*	*					
44 x 42 inches.....			*				
Washer, 36 x 18 inches.....			*				
Washer-extractor, combination:							
Capacity 50 pounds.....		*					
Capacity 100 pounds.....	*						
Capacity 200 pounds.....		*	*				

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
LIGHTS, OPERATING AND OBSTETRICAL CEILING-HUNG							
Morgue and Autopsy.....	*	*	*				
Obstetrical Facilities							
Delivery Room.....	*	*	*				
Surgical Suite							
Operating Room.....	*	*	*				
MILK FORMULA EQUIPMENT							
Rinser, jet, nursing bottle.....	*	*	*				
Washer:							
Nipple.....	*	*	*				
Nursing bottle with brushes, electric.....	*	*	*				
MORTUARY EQUIPMENT							
Refrigerator, mortuary:							
2 bodies.....	*	*					
4 bodies.....	*	*	*				
Table, autopsy with sink.....	*	*	*				
PHYSICAL THERAPY EQUIPMENT							
Hydrotherapy							
Bath, whirlpool, arm and leg.....	*	*	*				
Hubbard tank with monorail.....	*	*	*				
STERILIZERS							
Central Sterilizing and Supply Facilities							
Clean Work and Sterilizing Area							
Pressure, dressing:							
20 x 36 inches.....		*					
24 x 24 x 36 inches with loading carriage and cradle.....	*	*	*				
24 x 36 x 48 inches with loading carriage and cradle.....			*				
Laboratory Department ¹	(D)	(B)	(A)				
Sterilizing-Glasswashing Unit							
Laboratory, pressure, horizontal, 16 x 24 inches.....	*	*	*				
Nursery Facilities							
Preparation and Filling							
Pressure, infant formula:							
16 x 24 inches.....	*						
20 x 36 inches.....		*					
24 x 24 x 36 inches.....			*				

¹ D—20,000–30,000 tests per year.

B—40,000–75,000 tests per year.

A—70,000–120,000 tests per year.

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
STERILIZERS—Continued							
Obstetrical Facilities							
Substerilizing Room							
Pressure, instrument, high-speed, 16 x 24 inches.....	*	*	*				
Pharmacy Department							
Parenteral Solution Laboratory							
Pressure, 24 x 26 x 48 inches with loading carriage and cradle.....		*	*				
Surgical Suite							
Substerilizing Room							
Pressure, instrument, high-speed, 16 x 24 inches.....	*	*	*				
STILLS, WATER							
Central Sterilizing and Supply Facilities							
Clean Work and Sterilizing Area:							
Capacity 5 gallons per hour.....	*	*	*				
Laboratory Department ¹	(D)	(B)	(A)				
Sterilization-Glasswashing Unit:							
Capacity 2-5 gallons per hour.....		*	*				
Pharmacy Department							
Active Storage Room and Manufacturing Area.....		*					
Capacity 2 gallons per hour ²		*					
Parenteral Solution Laboratory							
Capacity 5 gallons per hour.....		*	*				
Capacity 10 gallons per hour.....			*				
TANK, GLASS, DISTILLED WATER, WALL-MOUNTED							
Central Sterilizing and Supply Facilities							
Clean Work and Sterilizing Area:							
Capacity 12 gallons.....	*	*	*				
Laboratory Department ¹	(D)	(B)	(A)				
Sterilizing-Glasswashing Unit:							
Capacity 12 gallons.....		*	*				
Pharmacy Department							
Active Storage and Manufacturing Area:							
Capacity 5 gallons.....		*					

¹ D—20,000-30,000 tests per year.

B—40,000-75,000 tests per year.

A—70,000-120,000 tests per year.

² Required if Parenteral Solution Laboratory is omitted.

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
TANK, GLASS, DISTILLED WATER, WALL-MOUNTED—Continued							
Pharmacy Department—Continued							
Compounding and Dispensing Laboratory:							
Capacity 5 gallons.....	*						
Capacity 12 gallons.....			*				
Manufacturing Laboratory:							
Capacity 12 gallons.....			*				
Parenteral Solution Laboratory:							
Capacity 12 gallons.....		*	*				
WARMER, BLANKET							
Emergency Department							
Utility Room.....			*				
X-RAY EQUIPMENT							
Radiographic Suite ¹	(B)	(A)					
Film Processing (Dark and Light rooms):							
Bin, storage:							
Cassette.....	*	*					
Film.....	*	*					
Cabinet, trash deposit.....	*	*					
Counter, film loading.....	*	*					
Dryer, film.....	*	*					
Exhaust, film dryer.....	*	*					
Light, coiling, white and red.....	*	*					
Pass box, cassette.....	*	*					
Rack, film hanger, under counter.....	*	*					
Refrigerating unit.....	*	*					
Safelight.....	*	*					
Tank:							
Developing with thermostatic mixing valve.....	*	*					
Fixing, through wall type.....	*	*					
Washing.....	*	*					
Surgical Suite							
Darkroom:							
Box, film storage.....		*	*				
Counters, sinks and cabinets.....			*				
Dryer, film, bracket for 12 films.....		*	*				
Fan, exhaust, or connection from film dryer.....		*	*				
Rack, film hanger.....		*	*				

¹ B—4,700 Patient Examinations per year.

A—5,400 Patient Examinations per year.

GROUP I EQUIPMENT BY CATEGORIES—Continued

	Number of Beds			Number of Units		Cost	
	50	100	200	I.C.	N.I.C.	Unit	Total
X-RAY EQUIPMENT—Continued							
Surgical Suite—Continued							
Darkroom—Continued							
Tank, developing with 2½- and 5-gal. inserts.....		*	*				
Illuminators, Film:							
Morgue and Autopsy Room.....	*	*	*				
Nursing Service Facilities:							
Treatment Room.....	*	*	*				
Radiographic Suite: 1.....	(B)	(A)					
Doctors Viewing.....	*	*					
Film Collection and Distribution Room.....	*	*					
Light Room.....	*	*					
Surgical Suite: 2.....							
Cystoscopic Room.....		*	*				
Fracture Room.....		*	*				
Operating Room.....	*	*	*				
MISCELLANEOUS EQUIPMENT							
Blinds, window.....	*	*	*				
Board, bulletin.....	*	*	*				
Clocks, electric.....	*	*	*				
Curtain, cubicle and truck.....	*	*	*				
Dispenser:							
Paper towel.....	*	*	*				
Soap.....	*	*	*				
Dressers, bedroom, built-in 2.....	*	*	*				
Fan, exhaust 2.....	*	*	*				
Hood spray, vapor tight with exhaust fan and hinged panels, front and sides 3.....			*				
Key control, master 2.....	*	*	*				
Lockers, built-in (bedrooms and locker rooms) 3.....	*	*	*				
Mirrors above lavatories 1.....	*	*	*				
Shelving, metal, adjustable.....	*	*	*				
Time clocks and card racks 2.....	*	*	*				
Washers and cleaners:							
Bottle, pressure type (pharmacy).....		*	*				
Nipple.....	*	*	*				
Nursing bottle.....	*	*	*				
Ultrasonic.....		*	*				
Water cooler 2.....	*	*	*				

¹ B—4,900 Patient Examinations per year; A—8,400 Patient Examinations per year.² Shall comply with requirements of the National Fire Protective Association Code No. 56.

² Must be included in the construction contract or purchased in accordance with the requirements for competitive bidding.

Related Publications

Selected related publications from the Hospital and Medical Facilities Series under the Hill-Burton Program are listed below by category:

A. Regulations

Public Health Service Regulations—Part 53: Pertaining to Hospital Survey and Construction (Hill-Burton) Legislation. PHS Publication No. 930-A-1. Revised 1963.

Applicant's Guide: Hospital and Medical Facilities Survey and Construction (Hill-Burton) Program. PHS Publication No. 833. April 1961.

C. Organization—Administration

Elements of Progressive Patient Care. PHS Publication No. 930-C-1. 1962.

D. Design—Equipment

Hospital Equipment Planning Guide. PHS Publication No. 930-D-4. 1963.

Administration Department: Planning and Equipping for 50-, 100-, and 200-bed General Hospitals. PHS Publication No. 892. 1961.

Planning the Laboratory for the General Hospital. Revised and reprinted from the Architectural Record, February 1961.

Planning the Patient Care Unit in the General Hospital. PHS Publication No. 930-D-1. 1962.

Planning Nurseries for Newborn in the General Hospital. PHS Publication No. 930-D-5. 1962.

Diagnostic X-ray Suites for General Hospitals. Reprint from Architectural Record, October 1959.

G. Bibliography

General Hospital Planning and Design. 1962.

NOTE: An annotated bibliography, *Hill-Burton Publications*, Public Health Service Publication No. 930-G-3, is available upon request. For a free single copy write to:

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